## **JENNIFER YEO**

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EDUCATION —	
Northeastern University   Boston, MA	May 2023
Candidate for Bachelor of Science in Bioengineering: Medical Devices; Minor: Mechan	_
Honors and Awards: Dean's List (Fall 2019, Spring 2020, Spring 2021)	
Activities: Biomedical Engineering Society Club 2021 Peer Mentor, College of Engir	
EXPERIENCE ———————————————————————————————————	
	1 – May 2021; Jan 2022 - Present
Intern, Undergraduate Student Researcher	7 Tools) MDI for high regulation
• Currently designing and fabricating visual stimulus goggles for ultra-high field (7	
studies of functional organization of visual cortex using SOLIDWORKS, Arduino, <b>Distal Solutions, Inc.</b>   Westborough, MA	and EAGLE July 2021 - Dec 2021
Co-op, Product Development Engineer	July 2021 - Dec 2021
• Designed more than 10 assembly and test fixtures including: air permeability tes	st pre-design verification force
tests, simulated use, UV bonding, and press-fits utilizing SOLIDWORKS	e, pre design vermeation force
• Led development of fixtures from initial concept development through manufact	uring using 3D printing, UV
curing boxes, and machine shop tools	····-9 ···9 · · · F · · · · · · · · · · · · · · ·
• Executed, analyzed, and presented tensile, compression, pressure, and leak testing	ng on company products
• Collaborated with a small fast-paced team on proprietary products for a thrombo	
MGH Martinos Center for Biomedical Imaging   Boston, MA	Aug 2020 – Dec 2020
Co-op, Undergraduate Researcher	G
• Accomplished statistical analysis of functional MRI data in two projects using MA	ATLAB and Linux environment:
a) Compared cortical-depth-dependent vascular responses driven by visual and	l physiological stimulus across
cortical depths in cerebral amyloid angiopathy (CAA) and healthy subjects	
<ul> <li>Co-authored conference abstract of study findings presented at Organizat</li> </ul>	ion of Human Brain Mapping
b) Characterized and compared modulation of arousal levels on stimulus-driver	n hemodynamic responses
<ul> <li>Developed MATLAB programs to infer subject's arousal levels based on</li> </ul>	task behavioral data
COTI Laboratory, Northeastern University   Boston, MA	Apr 2019 - Dec 2020
Undergraduate Researcher	
<ul> <li>Performed 3-D photon transport simulations, including Monte Carlo and diffusion</li> </ul>	n based, in MATLAB for human
brain atlases to explore the experimental impact of scattering coefficient mismat	
• Developed initial hardware and software prototypes for a low-cost tomographic	-
<ul> <li>Assisted post doctorate in technological work involving MATLAB and Arduino to</li> </ul>	
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<b>Technological</b> : SOLIDWORKS, MATLAB, Arduino, Microsoft Office, HTML, CSS, Ske	tchup, Vectorworks, Mimics,
Linux Environment, AutoCAD, C++, Javascript	Jan . P l al a
Fabrication: Laser cutter, 3D printer (SLA and FDM), UV Curing, Soldering Iron, CN	NC Router, Bandsaw, Chop Saw,
Laser Welder, Lathe, Split Die Bonder, Hot Box, Drill Press, Table Saws, OMM	
Languages: Burmese (Conversational), Chinese (Basic)	
BACKGROUND AND INTERESTS ———————————————————————————————————	ble Color Deviced HCD Charge
• Projects: Wireless Muscle Powered Bike Signal, Scoliosis Schroth Wall, Coffee Ta	bie, solar Powered USB Charger,

- Projects: Wireless Muscle Powered Bike Signal, Scoliosis Schroth Wall, Coffee Table, Solar Powered USB Charger Portfolio Website, LED GPS Watch, Dim Sum Coded Drawstring Backpack, iPhone 6 Microscope Attachment
- Community Involvement: Public Library Girls Who Code; Australian Red Cross; Children's Creativity Museum; UC Berkeley's Girls in Engineering
- Travel (Myanmar, Thailand, Australia, New Zealand, Japan), Swimming, Hand Embroidery

References available upon request.